

(12) INTERNATIONAL APPLICATION PUBLISHED IN ACCORDANCE WITH THE
INTERNATIONAL PATENT COOPERATION TREATY (PCT)

(19) Worldwide Organization for Intellectual Property
International Office

(43) International Publication Date
July 7, 2005 (07/07/2005) PCT

(10) International Publication Number
WO 2005/061268 A1

(51) International Patent Classification (IPC Class)⁷: B60N 2/00,
2/56, B60R 21/01

(21) International Reference Number: PCT/EP2004/012010

(22) International Application Date:
October 23, 2004 (10/23/2004)

(25) Language submitted in: German

(26) Publication Language: German

(30) Priority Data:
103 58 791.8 December 12, 2003 (12/12/2003) DE

(71) Applicant (for all designated countries with the exception of the
U.S.): CARL FREUDENBERG KG [DE/DE]; Höhnertweg 2-4,
69469 Weinheim (DE).

(72) Inventor; and

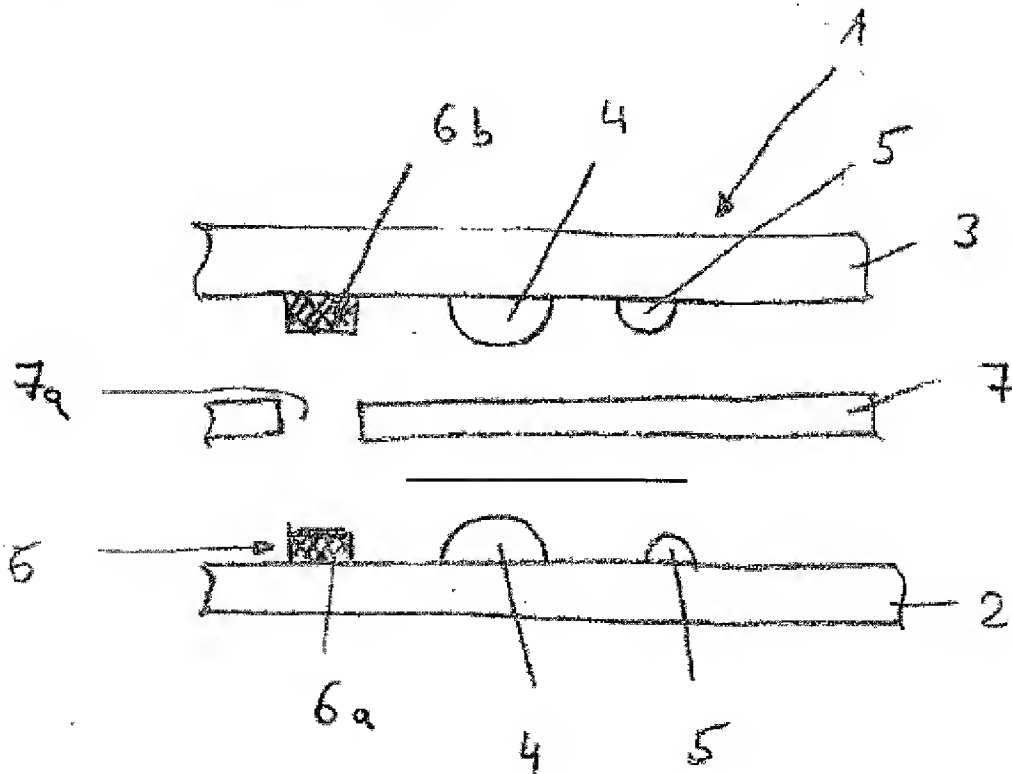
(75) Inventor/Applicant (for the U.S. only): FRANK,
Thorsten [DE/DE]; Bahnhostrasse 17, 69115
Heidelberg (DE)

(74) Attorneys: CARL FREUDENBERG KG; Patents and
Trademarks, 69465 Weinheim (DE)

(81) Designated Countries (for any available national type of
protection unless otherwise specified): AE, AG, AL,
AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

[continued on the following page]

(54) Title: COMBINED SENSOR AND HEATING ELEMENT



(57) Abstract: The invention relates to a combined sensor and heating element (1) which is particularly suitable for a motor vehicle seat. Said sensor and heating element comprises a sensor mat which comprises a carrier film (2) and a cover film (3), sensors (6) which are arranged between the carrier film (2) and the cover film (3), and sensor conductor paths, in addition to a heating conductor arrangement. According to the invention, the conductor paths (4) of the heating conductor arrangement are integrated into the sensor mat.

[continued on the following page]

WO 2005/061268 A1

(84) **Designated Countries** (for any available national type of protection unless otherwise specified): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published

- with international search report.

For explanations of the two-letter codes and other abbreviations please refer to the explanations ("Guidance Notes on Codes and Abbreviations") at the beginning of each regular issue of the PCT Gazette.

Declaration according to Rule 4.17:

----- Inventor declaration (Rule 4.17 numeral iv) only for US